

WHAT IS CLAIMED IS:

1. A light-catalyst equipped electric fan, comprising
 - a holding part supported on a main body of the fan; the holding part
 - 5 having a locating portion having a plurality of ribs arranged in a radial pattern; the ribs having screw holes formed thereon;
 - a seat disposed on a front side of the holding part; the seat having through holes thereon;
 - a light tube for producing light; the light tube being secured to the seat
 - 10 by means of fasteners, which are disposed over the light tube, and which are secured to the seat by screws screwed through the fasteners, the through holes of the seat, and the screw holes of the ribs;
 - a first motor secured to a rear side of the locating portion;
 - a fan blade connected to the first motor;
 - 15 a rear protecting net disposed behind the blade, and secured to the holding part;
 - a second motor disposed on a front side of the locating portion and having a rotary output shaft connected to an output shaft thereof;
 - a filtering honeycomb arranged in front of the second motor; the filtering
 - 20 honeycomb being made of paper, and having titanium dioxide applied over it to be used as light catalyst; and
 - a front protecting net arranged at a front of the electric fan, and connected with the rotary output shaft at a center thereof; the filtering

honeycomb being stuck on a rear side of front protecting net.

2. The light-catalyst equipped electric fan as claimed in claim 1, wherein
an inner protecting net is disposed behind, and connected with the
front protecting net so that the filtering honeycomb is protected
5 between both of the nets; the front protecting net having an annular
trench on the edge of a rear side, and screw holes spaced apart along
the annular trench; the inner protecting net having a plurality of
protrusions on an edge of a front side thereof, and through holes
between the protrusions; the protecting nets being joined together with
10 the protrusions being inserted in the annular trench, and with screws
being screwed through the holes thereof and screwed into nuts.
3. The light-catalyst equipped electric fan as claimed in claim 1, wherein
an ornamental cap is connected to the center of the front protecting net,
and connected with the rotary output shaft.

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